

PLUS 4/26/04

Butler, Douglas

From: PLUS
Sent: Monday, April 19, 2004 11:27 AM
To: Butler, Douglas
Subject: PLUS Results for 09974739

Here are the PLUS search results for 09974739.

This search was prepared by the staff of the Scientific and Technical Information Center, SIRA. If you have questions or comments about this search, please reply via email to PLUS@uspto.gov.



09974739_OUAL.txt



09974739_LIST.txt



09974739_WEST.txt



09974739_EAST.txt



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09974739_CLS.txt



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09974739_LIST

PLUS Search Results for S/N 09974739, Searched April 19, 2004

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present. PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

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09974739_CLS

Most Frequently Occurring Classifications of Patents Returned
From A Search of 09974739 on April 19, 2004

Original Classifications

3 91/376R
3 188/266.6
3 254/270
3 376/260
2 74/606R
2 123/90.41
2 137/218
2 137/625.43
2 188/151R
2 222/401
2 303/9.75

Cross-Reference Classifications

4 60/547.1
4 137/596.17
4 188/349
4 251/129.14
3 91/376R
3 91/459
3 239/363
3 254/360
3 303/61
3 376/258
2 60/545
2 60/551
2 60/593
2 60/594
2 74/579R
2 91/44
2 92/240
2 92/33
2 166/75.15
2 188/290
2 210/237
2 222/209
2 222/325
2 239/360
2 239/373
2 251/129.08
2 251/287
2 303/10
2 303/2
2 303/9.62
2 376/313
2 417/555.2
2 475/82

Combined Classifications

6 91/376R
5 137/596.17
4 60/547.1
4 188/349
4 251/129.14
4 376/258

3 60/594
3 74/579R
3 91/459
3 123/90.41
3 137/218
3 188/266.6
3 222/401
3 239/363
3 254/270
3 254/360
3 303/61
3 303/9.62
3 376/260
3 417/555.2
2 60/487
2 60/545
2 60/548
2 60/551
2 60/562
2 60/593
2 74/606R
2 74/625
2 91/361
2 91/375A
2 91/44
2 92/187
2 92/240
2 92/33
2 123/568.24
2 137/625.43
2 137/627.5
2 166/75.15
2 180/429
2 188/151R
2 188/290
2 210/237
2 222/209
2 222/325
2 222/385
2 239/360
2 239/373
2 251/129.08
2 251/287
2 251/30.01
2 251/65
2 251/96
2 303/10
2 303/119.2
2 303/2
2 303/9.75
2 376/313
2 475/82

09974739_CLSTITLES

Titles of Most Frequently Occurring Classifications of Patents Returned
From A Search of 09974739 on April 19, 2004

6 91/376R (3 OR, 3 XR)
 Class 091 : MOTORS: EXPANSIBLE CHAMBER TYPE
 91/358R WORKING MEMBER POSITION FEEDBACK TO MOTIVE
 FLUID CONTROL
 91/368 .Follower type
 91/374 ..Plural movable valve parts
 91/376R ...One movable part unitary with working member

5 137/596.17 (1 OR, 4 XR)
 Class 137 : FLUID HANDLING
 137/561R SYSTEMS
 137/596 .Supply and exhaust
 137/596.17 ..Motor

4 60/547.1 (0 OR, 4 XR)
 Class 060 : POWER PLANTS
 60/325 PRESSURE FLUID SOURCE AND MOTOR
 60/533 .Pulsator
 60/547.1 ..With control of or by a separate power fluid,
 etc.

4 188/349 (0 OR, 4 XR)
 Class 188 : BRAKES
 188/381 FRICTIONAL VIBRATION DAMPER
 188/151R .Fluid pressure
 188/152 ..Road vehicle
 188/349 ...With front rear brake apportioner

4 251/129.14 (0 OR, 4 XR)
 Class 251 : VALVES AND VALVE ACTUATION
 251/129.01 ELECTRICALLY ACTUATED VALVE
 251/129.14 .Freely rotatable ball valve

4 376/258 (1 OR, 3 XR)
 Class 376 : INDUCED NUCLEAR REACTIONS: PROCESSES,
 SYSTEMS, AND ELEMENTS
 376/245 TESTING, SENSING, MEASURING, OR DETECTING A
 FISSION REACTOR CONDITION
 376/258 .Position detection

3 60/594 (1 OR, 2 XR)
 Class 060 : POWER PLANTS
 60/325 PRESSURE FLUID SOURCE AND MOTOR
 60/533 .Pulsator
 60/594 ..Having cam, or lever system driving master

3 74/579R (1 OR, 2 XR)
 Class 074 : MACHINE ELEMENT OR MECHANISM
 74/469 CONTROL LEVER AND LINKAGE SYSTEMS
 74/579R .Pitmans and connecting rods

3 91/459 (0 OR, 3 XR)
 Class 091 : MOTORS: EXPANSIBLE CHAMBER TYPE
 91/418 WITH MOTIVE FLUID VALVE

91/459 .Electrically operated (275) (361)

3 123/90.41 (2 OR, 1 XR)
 Class 123 : INTERNAL-COMBUSTION ENGINES
 123/90.1 . POPPET VALVE OPERATING MECHANISM
 123/90.39 .Rocker
 123/90.41 ..Individually fulcrumed

3 137/218 (2 OR, 1 XR)
 Class 137 : FLUID HANDLING
 137/215 BACK FLOW PREVENTION BY VACUUM BREAKING (E.G.,
 ANTI-SIPHON DEVICES)
 137/216 .Air vent in liquid flow line
 137/217 ..Valved
 137/218 ...With co-acting valve in liquid flow path

3 188/266.6 (3 OR, 0 XR)
 Class 188 : BRAKES
 188/266 INTERNAL-RESISTANCE MOTION RETARDER
 188/266.1 .Motion damped from condition (e.g., bump,
 speed change) detected outside of retarder
 188/266.2 ..Condition actuates valve or regulator
 188/266.5 ...Of the pulsating or reciprocating type
 188/266.6Side mounted

3 222/401 (2 OR, 1 XR)
 Class 222 : DISPENSING
 222/251 WITH DISCHARGE ASSISTANT (E.G., IMPELLER, PUMP,
 CONVEYER, MOVABLE TRAP CHAMBER, ETC.)
 222/394 .Fluid pressure
 222/401 ..Container-mounted fluid pressure generating
 pump or pulsator

3 239/363 (0 OR, 3 XR)
 Class 239 : FLUID SPRINKLING, SPRAYING, AND DIFFUSING
 239/302 INCLUDING SUPPLY HOLDER FOR MATERIAL
 239/337 .Fluid pressure discharge means
 239/340 ..Pressure reducer at holder outlet
 239/355 ...Holder carried or mounted gas pump
 239/363Flexible wall gas pump

3 254/270 (3 OR, 0 XR)
 Class 254 : IMPLEMENTS OR APPARATUS FOR APPLYING PUSHING
 OR PULLING FORCE
 254/264 APPARATUS FOR HAULING OR HOISTING LOAD,
 INCLUDING DRIVEN DEVICE WHICH CONTACTS AND PULLS ON CAB
 LE

254/266 .Device includes rotatably driven, cable
 contacting drum
 254/270 ..Having cable contacted, supported, or
 attached mechanism for generating control impulse to
 retarding means or drive

3 254/360 (0 OR, 3 XR)
 Class 254 : IMPLEMENTS OR APPARATUS FOR APPLYING PUSHING
 OR PULLING FORCE
 254/264 APPARATUS FOR HAULING OR HOISTING LOAD,
 INCLUDING DRIVEN DEVICE WHICH CONTACTS AND PULLS ON CAB

LE

254/266 .Device includes rotatably driven, cable contacting drum

254/360 ..Drive includes expandible, noncombustible, fluid motor (e.g., air, steam)

3 303/61 (0 OR, 3 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/50 MOTORMAN'S VALVES
 303/61 .Intermittent

3 303/9.62 (1 OR, 2 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/5 MULTIPLE FLUID-RECEIVING DEVICES
 303/6.01 .Multiple motors
 303/9.62 ..Apportioning control

3 376/260 (3 OR, 0 XR)
 Class 376 : INDUCED NUCLEAR REACTIONS: PROCESSES, SYSTEMS, AND ELEMENTS
 376/260 HANDLING OF FISSION REACTOR COMPONENT STRUCTURE WITHIN REACTOR SYSTEM

3 417/555.2 (1 OR, 2 XR)
 Class 417 : PUMPS
 417/437 EXPANSIBLE CHAMBER TYPE
 417/555.1 .Fluid serially moved to opposite side of pumping member
 417/555.2 ..Well swabs

2 60/487 (1 OR, 1 XR)
 Class 060 : POWER PLANTS
 60/325 PRESSURE FLUID SOURCE AND MOTOR
 60/487 .Input pump and rotary output motor system having displacement varying type of direction or speed selector

2 60/545 (0 OR, 2 XR)
 Class 060 : POWER PLANTS
 60/325 PRESSURE FLUID SOURCE AND MOTOR
 60/533 .Pulsator
 60/545 ..Having electricity or magnetically operated structure

2 60/548 (1 OR, 1 XR)
 Class 060 : POWER PLANTS
 60/325 PRESSURE FLUID SOURCE AND MOTOR
 60/533 .Pulsator
 60/547.1 ..With control of or by a separate power fluid, etc.
 60/548 ...Flow in recirculating circuit controlled

2 60/551 (0 OR, 2 XR)
 Class 060 : POWER PLANTS
 60/325 PRESSURE FLUID SOURCE AND MOTOR
 60/533 .Pulsator
 60/547.1 ..With control of or by a separate power fluid, etc.

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60/551 ...Manual master and controller of motor driven
 master actuated by separate linkages to a common operatin
g lever

2 60/562 (1 OR, 1 XR)
 Class 060 : POWER PLANTS
 60/325 PRESSURE FLUID SOURCE AND MOTOR
 60/533 .Pulsator
 60/562 ..Master piston of one pulsator circuit drives
 master piston of a parallel circuit through a resilient,
 fluid or lost motion connection

2 60/593 (0 OR, 2 XR)
 Class 060 : POWER PLANTS
 60/325 PRESSURE FLUID SOURCE AND MOTOR
 60/533 .Pulsator
 60/593 ..Having fluid motor driving piston of master
 unit

2 74/606R (2 OR, 0 XR)
 Class 074 : MACHINE ELEMENT OR MECHANISM
 74/469 CONTROL LEVER AND LINKAGE SYSTEMS
 74/606R .Gear casings

2 74/625 (1 OR, 1 XR)
 Class 074 : MACHINE ELEMENT OR MECHANISM
 74/625 ALTERNATE MANUAL OR POWER OPERATORS

2 91/361 (1 OR, 1 XR)
 Class 091 : MOTORS: EXPANSIBLE CHAMBER TYPE
 91/358R WORKING MEMBER POSITION FEEDBACK TO MOTIVE
 FLUID CONTROL
 91/361 .Electrical input and feedback signal means
 (459)

2 91/375A (1 OR, 1 XR)
 Class 091 : MOTORS: EXPANSIBLE CHAMBER TYPE
 91/358R WORKING MEMBER POSITION FEEDBACK TO MOTIVE
 FLUID CONTROL
 91/368 .Follower type
 91/374 ..Plural movable valve parts
 91/375R ...Valve part moves about an axis
 91/375A Torsion bar

2 91/44 (0 OR, 2 XR)
 Class 091 : MOTORS: EXPANSIBLE CHAMBER TYPE
 91/41 WITH CORRELATED CONTROL OF MOTIVE FLUID AND
 LOCKING MEANS
 91/44 .Sequential operation of locking means and
 motive fluid control

2 92/187 (1 OR, 1 XR)
 Class 092 : EXPANSIBLE CHAMBER DEVICES
 92/172 PISTON
 92/187 .With separable means for pivotally mounting
 connecting rod to piston

2 92/240 (0 OR, 2 XR)

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Class 092 : EXPANSIBLE CHAMBER DEVICES
92/172 PISTON
92/240 .Side wall portion includes peripheral axially
extending flexible lip

2 92/33 (0 OR, 2 XR)
Class 092 : EXPANSIBLE CHAMBER DEVICES
92/31 RECTILINEARLY MOVING WORKING MEMBER AND COAXIAL
OR PARALLEL ELEMENT SLIDABLY INTERENGAGED FOR RELATIVE
ROTARY MOVEMENT
92/33 .Element extends through working member portion

2 123/568.24 (1 OR, 1 XR)
Class 123 : INTERNAL-COMBUSTION ENGINES
123/434 CHARGE FORMING DEVICE (E.G., POLLUTION CONTROL)
123/568.11 .Exhaust gas used with the combustible mixture
(e.g., emission control Exhaust Gas Recirculation (EGR
)
valve)
123/568.21 ..Having electrically actuated control means
123/568.23 ...Having rotary actuator control of EGR valve
123/568.24Electrical rotary actuator rotates the EGR
valve

2 137/625.43 (2 OR, 0 XR)
Class 137 : FLUID HANDLING
137/561R SYSTEMS
137/625 .Multi-way valve unit
137/625.43 ..Four port reversing valves

2 137/627.5 (1 OR, 1 XR)
Class 137 : FLUID HANDLING
137/561R SYSTEMS
137/627.5 .Sequentially closing and opening alternately
seating flow controllers

2 166/75.15 (0 OR, 2 XR)
Class 166 : WELLS
166/75.11 ABOVE GROUND APPARATUS
166/75.15 .With means for injecting solid or particulate
material into the well

2 180/429 (1 OR, 1 XR)
Class 180 : MOTOR VEHICLES
180/400 STEERING GEAR
180/417 .With fluid power assist
180/429 ..Having rotary working member

2 188/151R (2 OR, 0 XR)
Class 188 : BRAKES
188/381 FRICTIONAL VIBRATION DAMPER
188/151R .Fluid pressure

2 188/290 (0 OR, 2 XR)
Class 188 : BRAKES
188/266 INTERNAL-RESISTANCE MOTION RETARDER

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188/290 .Using a rotary-type fluid damper

2 210/237 (0 OR, 2 XR)
Class 210 : LIQUID PURIFICATION OR SEPARATION
210/232 WITH REPAIR OR ASSEMBLING MEANS
210/237 .Hoist or handle means

2 222/209 (0 OR, 2 XR)
Class 222 : DISPENSING
222/206 RESILIENT WALL
222/209 .Fluid pressure generating pump or pulsator
and/or removable flexible wall closures

2 222/325 (0 OR, 2 XR)
Class 222 : DISPENSING
222/251 WITH DISCHARGE ASSISTANT (E.G., IMPELLER, PUMP,
CONVEYER, MOVABLE TRAP CHAMBER, ETC.)
222/325 .Insertable cartridge or removable container

2 222/385 (1 OR, 1 XR)
Class 222 : DISPENSING
222/251 WITH DISCHARGE ASSISTANT (E.G., IMPELLER, PUMP,
CONVEYER, MOVABLE TRAP CHAMBER, ETC.)
222/372 .With material supply container and discharge
assistant with casing (e.g., supply container and pump)
222/383.1 ..Container-mounted pump
222/385 ...Pump or pulsator casing within supply
container

2 239/360 (0 OR, 2 XR)
Class 239 : FLUID SPRINKLING, SPRAYING, AND DIFFUSING
239/302 INCLUDING SUPPLY HOLDER FOR MATERIAL
239/337 .Fluid pressure discharge means
239/340 ..Pressure reducer at holder outlet
239/355 ...Holder carried or mounted gas pump
239/360Pump casing within supply holder

2 239/373 (0 OR, 2 XR)
Class 239 : FLUID SPRINKLING, SPRAYING, AND DIFFUSING
239/302 INCLUDING SUPPLY HOLDER FOR MATERIAL
239/337 .Fluid pressure discharge means
239/373 ..Means to pressurize contents of holder

2 251/129.08 (0 OR, 2 XR)
Class 251 : VALVES AND VALVE ACTUATION
251/129.01 ELECTRICALLY ACTUATED VALVE
251/129.08 .Having means to produce proportional flow

2 251/287 (0 OR, 2 XR)
Class 251 : VALVES AND VALVE ACTUATION
251/284 LIMIT STOP
251/286 .Rotary valve
251/287 ..Stop element on head

2 251/30.01 (1 OR, 1 XR)
Class 251 : VALVES AND VALVE ACTUATION
251/12 FLUID ACTUATED OR RETARDED
251/25 .Pilot or servo type motor

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251/30.01 ..Electrically actuated pilot valve

2 251/65 (1 OR, 1 XR)
Class 251 : VALVES AND VALVE ACTUATION
251/65 PERMANENT OR CONSTANTLY ENERGIZED MAGNET
ACTUATOR

2 251/96 (1 OR, 1 XR)
Class 251 : VALVES AND VALVE ACTUATION
251/89 WITH MEANS FOR BLOCKING OR DISABLING ACTUATOR

251/95 .Released by non-valving actuator motion
251/96 ..Linear reciprocation of rotary handle

2 303/10 (0 OR, 2 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
303/10 WITH PUMP

2 303/119.2 (1 OR, 1 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
303/121 SPEED-CONTROLLED
303/113.1 .Having a valve system responsive to a wheel
lock signal
303/119.1 ..System controlled by solenoid valve
303/119.2 ...System solenoid valve detail

2 303/2 (0 OR, 2 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
303/2 MULTIPLE SYSTEMS

2 303/9.75 (2 OR, 0 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
303/5 MULTIPLE FLUID-RECEIVING DEVICES
303/6.01 .Multiple motors
303/9.62 ..Apportioning control
303/9.75 ...Detail

2 376/313 (0 OR, 2 XR)
Class 376 : INDUCED NUCLEAR REACTIONS: PROCESSES,
SYSTEMS, AND ELEMENTS
376/308 FISSION REACTOR MATERIAL (INCLUDING REACTION
PRODUCTS) TREATMENT
376/310 .Impurity removal
376/313 ..By filters, ion exchangers, or absorbers

2 475/82 (0 OR, 2 XR)
Class 475 : PLANETARY GEAR TRANSMISSION SYSTEMS OR
COMPONENTS
475/31 FLUID DRIVE OR CONTROL OF PLANETARY GEARING
475/72 .Fluid pump and motor in one of plural paths to
or from planetary gearing
475/80 ..Plural speed ranges
475/81 ...With constant speed ratio between input and
one fluid unit
475/82Having single planet carrier

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EAST 4/26/04

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